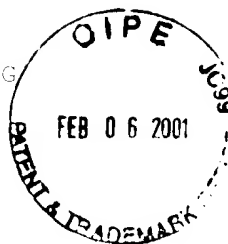


SEQUENCE LISTING

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(120) Gene encoding caffeine synthesis system associated enzyme and use thereof

(130) 02943-444

(140) US 09/571,657

(141) 2000-05-05

(150) JP 144358/1999

(151) 1999-05-06

(160) 11

(170) PatentIn version 3.0

(210) 1

(211) 136

(212) PPT

(213) Canellia sarcocolla

(400) 1

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 20 25 30

Val Gln Thr Leu Phe Ser Arg Asp Phe His Leu Gln Ala Leu Asn Ala
 35 40 45

Ala Asp Leu Gly Cys Ala Ala Gly Pro Asn Thr Phe Ala Val Ile Ser
 50 55 60

Thr Ile Lys Arg Met Met Glu Lys Lys Cys Arg Glu Leu Asn Cys Gln
 65 70 75 80

Thr Leu Gln Leu Gln Val Tyr Leu Asn Asp Leu Phe Gly Asn Asp Phe
 85 90 95

Asn Thr Leu Phe Lys Gly Leu Ser Ser Glu Val Ile Gly Asn Lys Cys
 100 105 110

Gln Gln Val Pro Cys Tyr Val Met Gly Val Pro Gly Ser Phe His Gly
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Arg Leu Phe Pro Arg Asn Ser Leu His Leu Val His Ser Ser Tyr Ser
 130 135 140

Val His Trp Leu Thr Gln Ala Pro Lys Gly Leu Thr Ser Arg Glu Gly
 145 150 155 160

Leu Ala Leu Asn Lys Gly Lys Ile Tyr Ile Ser Lys Thr Ser Pro Pro
 165 170 175
 Val Val Arg Glu Ala Tyr Leu Ser Gln Phe His Glu Asp Phe Thr Met
 180 185 190
 Phe Leu Asn Ala Arg Ser Gln Glu Val Val Pro Asn Gly Cys Met Val
 195 200 205
 Leu Ile Leu Arg Gly Arg Gln Tyr Ser Asp Phe Ser Asp Met Gln Ser
 210 215 220
 Cys Phe Thr Trp Glu Leu Leu Ala Met Ala Ile Ala Glu Leu Val Ser
 225 230 235 240
 Gln Gly Leu Ile Asp Glu Asp Lys Leu Asp Thr Phe Asn Ile Pro Ser
 245 250 255
 Tyr Phe Ala Ser Leu Glu Glu Val Lys Asp Ile Val Glu Arg Asp Gly
 260 265 270
 Ser Phe Thr Ile Asp His Ile Glu Gly Phe Asp Leu Asp Ser Val Glu
 275 280 285
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 290 295 300
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 305 310 315 320
 Ile Met Asp Lys Leu Tyr Asp Lys Phe Thr His Ile Val Val Ser Asp
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c211: 1427

c212: RNA

c213: Camellia sinensis

c400: 5

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aaggaguuu agcaaaaa acuuuuuua cgcacaaga ggccucaaa gacacagccag	150
cgcagaaaa agcagugaa acucuuuua ccagagauu ccacuuuca gcuuuuacg	200
caggagacu gggugugca gggguccaa acacauucg agugauuuu acgaucaaga	250
gaagagugga aaagaaugc agggaauga aagccaaa acuggaacu cagguuuacu	300
ugaauagacu uuugggaaau gaurucaaua ccuuuuuca aggcugucg ucugagguua	350
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uuuc uauu aaagacaagc ccuccugug uagagaagc cuacuauu cuuuuucag 660
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cuuacaca uauccacua gagguugug ccauguaau gcacaagaag auuugagagg 1260
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<113> Amino acid at position 7 is Xaa wherein Xaa = other amino acid.

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Phe Thr Gln Val
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<113> Camellia sinensis

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<223> Nucleotides 12 and 15 are "n" wherein "n" = i.

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10 6
11 10
12 RNA
13 Camellia sinensis

400 6
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10 7
11 10
12 RNA
13 Camellia sinensis

400 7
tga caga ttacgcc 17

10 8
11 10
12 RNA
13 Camellia sinensis

400 8
acgtactt ttctggggcc 20

11 9
12 12
13 RNA
14 Camellia sinensis

400 9
gagtg gtt aagagcttga ag 22

11 10
12 11
13 RNA
14 Camellia sinensis

400 10
gcaactt ggaacttcag g 21

11 11
12 13
13 RNA
14 Camellia sinensis

400 11
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22

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